

PCTA9411-24.txt

<110> HANMI PHARM. IND. CO., LTD.

<120> IgG Fc FRAGMENT FOR A DRUG CARRIER AND METHOD FOR THE PREPARATION THEREOF

<150> KR 10-2003-0080299

<151> 2003-11-13

<160> 23

<170> KopatentIn 1.71

<210> 1

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 1

cgtcatgccc agcacctgag ttcttggggg gacca

35

<210> 2

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 2

gggggatcct catttaccca gagacagga gaggctcttc tg

42

<210> 3

<211> 12

<212> PRT

<213> Homo sapiens

<400> 3

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
1 5 10

<210> 4

<211> 663

<212> DNA

<213> homo sapiens

<400> 4

tcatgccag cacctgagtt cctgggggga ccatcagttt tctgttccc cccaaaaccc	60
aaggacactic tcatgatctc ccggaccctt gaggtcacgt gcgtgggtgt ggacgtgagc	120
caggaagacc ccgaggtcca gttcaactgg tacgtggatg gcgtggaggt gcataatgcc	180
aagacaaagc cgcgggagga gcagttcaac agcacgtacc gtgtggtcag cgtcctcacc	240
gtcctgcacc aggactggct gaacggcaag gattacaagt gcaaggcttc caacaaaggc	300
ctcccgctct ccatcgagaa aacctctctc aaagccaaag ggcagccccg agagccacag	360
gtgtacaccc tgccccatc ccaggaggag atgaccaaga accaggctcag cctgacctgc	420
ctggtaaaag gcttctaccc cagcgacatc gccgtggagt gggagagcaa tgggcagccg	480
gagaacaact acaagaccac gcctccgtg ctggactccg acggctcctt cttcctctac	540
agcaggctaa ccgtggacaa gagcaggtgg caggagggga atgtcttctc atgtccgtg	600
atgcatgagg ctctgcacaa ccaactacaca cagaagagcc tctccctgtc tctgggtaaa	660

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tga 663

<210> 5
 <211> 69
 <212> DNA
 <213> homo sapiens

<400> 5
 atgaaaaaga caatcgcat tcttcttgca tctatgttcg ttttttctat tgctacaaat 60
 gccacggcg 69

<210> 6
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 6
 tctattgcta caaatgcca ggccttccca accattccct tatcc 45

<210> 7
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 7
 agataacgat gtttacgggt ccggaagggt tggtaaggga atagg 45

<210> 8
 <211> 220
 <212> PRT
 <213> homo sapiens

<400> 8
 Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe
 1 5 10 15
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 20 25 30
 Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe
 35 40 45
 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 50 55 60
 Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 65 70 75 80
 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 85 90 95
 Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala
 100 105 110
 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
 115 120 125
 Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 130 135 140
 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro

<400> 10
Ala Pro Glu Phe Leu 5 Gly Gly Pro Ser Val 10 Phe Leu Phe Pro Pro 15 Lys
1
Pro Lys Asp Thr 20 Leu Met Ile Ser Arg 25 Thr Pro Glu Val Thr 30 Cys Val
Val Val Asp 35 Val Ser Gln Glu Asp 40 Pro Glu Val Gln Phe 45 Asn Trp Tyr
Val Asp 50 Gly Val Glu Val His 55 Asn Ala Lys Thr Lys 60 Pro Arg Glu Glu
Gln 65 Phe Asn Ser Thr Tyr 70 Arg Val Val Ser Val 75 Leu Thr Val Leu His 80
Gln Asp Trp Leu Asn 85 Gly Lys Glu Tyr Lys 90 Cys Lys Val Ser Asn Lys 95
Gly Leu Pro Ser 100 Ser Ile Glu Lys Thr 105 Ile Ser Lys Ala Lys 110 Gly Gln
Pro Arg Glu 115 Pro Gln Val Tyr Thr 120 Leu Pro Pro Ser Gln 125 Glu Glu Met
Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro

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130 135 140
 Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 145 150 155 160
 Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 165 170 175
 Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val
 180 185 190
 Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 195 200 205
 Lys Ser Leu Ser Leu Ser Leu Gly Lys
 210 215

<210> 11
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 11
 cgccgtgcc agcacctgaa ctccctggggg gac

33

<210> 12
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 12
 gggggatcct catttaccg gagacagga gag

33

<210> 13
 <211> 15
 <212> PRT
 <213> homo sapiens

<400> 13
 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
 1 5 10 15

<210> 14
 <211> 660
 <212> DNA
 <213> homo sapiens

<400> 14
 ccgtgccag cacctgaact cctggggga ccgtcagtct tctcttccc cccaaaaccc 60
 aaggacacc tcatgatctc ccggaccct gaggtcacat gcgtggtggt ggacgtgagc 120
 cacgaagacc ctgaggtcaa gttcaactgg tacgtggacg gcgtggaggt gcataatgcc 180
 aagacaaagc cgccggagga gcagtacaac agcacgtacc gtgtggtcag cgtcctcacc 240
 gtctgcacc aggactggct gaattgcaag gactacaagt gcaaggctct caacaaagcc 300
 ctccagccc ccatcgagaa aacctctcc aaagccaaag ggcagccccg agagccacag 360
 gtgtacacc tgcctccatc ccgggatgag ctgaccaaga accaggtcag cctgacctgc 420
 ctactcaaa acctctatcc caacacatc gccgtggagt gggagagcaa tgggcagccg 480

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gagaacaact acaagaccac gccctcccgig ctggactccg acggctcctt ctctctctac 540
 agcaagctca ccgctggacaa gacgaggtgg cagcagggga acgtctcttc atgctccgtg 600
 atgcatgagg ctctgcacaa ccactacacg cagaagagcc tctccctgtc tccgggtaaa 660
 660

<210> 15
 <211> 220
 <212> PRT
 <213> homo sapiens

<400> 15
 Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
 1 5 10 15
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 20 25 30
 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
 35 40 45
 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 50 55 60
 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 65 70 75 80
 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 85 90 95
 Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 100 105 110
 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
 115 120 125
 Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 130 135 140
 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 145 150 155 160
 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
 165 170 175
 Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
 180 185 190
 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 195 200 205
 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 210 215 220

<210> 16
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 16
 cggcacctga actcctgggg ggaccg

26

<210> 17
 <211> 651
 <212> DNA

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<213> homo sapiens

<400> 17
gcacctgaac tcctgggggg accgtcagtc ttctctctcc ccccaaaacc caaggacacc 60
ctcatgatct cccggacccc tgaggtcaca tgcgtgggtg tggacgtgag ccacgaagac 120
cctgaggta agttcaactg gtacgtggac ggcggtggagg tgcataatgc caagacaaag 180
ccgcgggagg agcagtacaa cagcacgtac cgtgtgggtc gcgtcctcac cgtcctgcac 240
caggactggc tgaatggcaa ggagtacaag tgcaagggtct ccaacaaagc cctcccagcc 300
cccatcgaga aaacatctc caaagccaaa gggcagcccc gagagccaca ggtgtacacc 360
ctgccccat cccgggaiga gctgaccaag aaccagggtc gcctgacctg cctggtcaaa 420
ggcttctatc ccagcgacat cgcgtggag tgggagagca atgggcagcc ggagaacaac 480
tacaagacca cgctcccggt gctggactcc gacggctcct tcttctcta cagcaagctc 540
accgtggaca agagcagggt gcagcagggg aacgtcttct catgctccgt gatgcatgag 600
gctctgcaca accactacac gcagaagagc ctctccctgt ctccgggtaa a 651

<210> 18
<211> 217
<212> PRT
<213> homo sapiens

<400> 18
Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
1 5 10 15
Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30
Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
35 40 45
Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
50 55 60
Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
65 70 75 80
Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
85 90 95
Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
100 105 110
Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
115 120 125
Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
130 135 140
Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160
Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
165 170 175
Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190
Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
195 200 205
Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

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<210> 19
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 19
 cgccgtgccc agcacctccg gtggcggga

29

<210> 20
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 20
 gggggatcct catttaccg gagacagga gag

33

<210> 21
 <211> 12
 <212> PRT
 <213> homo sapiens

<400> 21
 Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
 1 5 10

<210> 22
 <211> 657
 <212> PRT
 <213> homo sapiens

<400> 22
 Cys Cys Gly Thr Gly Cys Cys Cys Ala Gly Cys Ala Cys Cys Thr Cys
 1 5 10 15
 Cys Gly Gly Thr Gly Gly Cys Gly Gly Gly Ala Cys Cys Gly Thr Cys
 20 25 30
 Ala Gly Thr Cys Thr Thr Cys Cys Thr Cys Thr Thr Cys Cys Cys Cys
 35 40 45
 Cys Cys Ala Ala Ala Ala Cys Cys Cys Ala Ala Gly Gly Ala Cys Ala
 50 55 60
 Cys Cys Cys Thr Cys Ala Thr Gly Ala Thr Cys Thr Cys Cys Cys Gly
 65 70 75 80
 Gly Ala Cys Cys Cys Cys Thr Gly Ala Gly Gly Thr Cys Ala Cys Ala
 85 90 95
 Thr Gly Cys Gly Thr Gly Gly Thr Gly Gly Thr Gly Gly Ala Cys Gly
 100 105 110
 Thr Gly Ala Gly Cys Cys Ala Cys Gly Ala Ala Gly Ala Cys Cys Cys
 115 120 125
 Thr Gly Ala Gly Gly Thr Cys Cys Ala Gly Thr Thr Cys Ala Ala Cys
 130 135 140
 Thr Gly Gly Thr Ala Cys Gly Thr Gly Gly Ala Cys Gly Gly Cys Gly
 145 150 155 160
 Thr Gly Gly Ala Gly Gly Thr Gly Cys Ala Thr Ala Ala Thr Gly Cys
 165 170 175

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Cys Ala Ala Gly Ala Cys Ala Ala Ala Gly Cys Cys Gly Cys Gly Gly
 180 185 190
 Gly Ala Gly Gly Ala Gly Cys Ala Gly Thr Thr Thr Ala Ala Cys Ala
 195 200 205
 Gly Cys Ala Cys Gly Thr Thr Thr Cys Gly Thr Gly Thr Gly Gly Thr
 210 215 220
 Cys Ala Gly Cys Gly Thr Cys Cys Thr Cys Ala Cys Cys Gly Thr Cys
 225 230 235 240
 Gly Thr Gly Cys Ala Cys Cys Ala Gly Gly Ala Cys Thr Gly Gly Cys
 245 250 255
 Thr Gly Ala Ala Thr Gly Gly Cys Ala Ala Gly Gly Ala Gly Thr Ala
 260 265 270
 Cys Ala Ala Gly Thr Gly Cys Ala Ala Gly Gly Thr Cys Thr Cys Cys
 275 280 285
 Ala Ala Cys Ala Ala Ala Gly Gly Cys Cys Thr Cys Cys Cys Ala Gly
 290 295 300
 Cys Cys Cys Cys Cys Ala Thr Cys Gly Ala Gly Ala Ala Ala Cys
 305 310 315 320
 Cys Ala Thr Cys Thr Cys Cys Ala Ala Ala Ala Cys Cys Ala Ala Ala
 325 330 335
 Gly Gly Gly Cys Ala Gly Cys Cys Cys Cys Gly Ala Gly Ala Gly Cys
 340 345 350
 Cys Ala Cys Ala Gly Gly Thr Gly Thr Ala Cys Ala Cys Cys Cys Thr
 355 360 365
 Gly Cys Cys Cys Cys Cys Ala Thr Cys Cys Cys Gly Gly Gly Ala Ala
 370 375 380
 Gly Ala Gly Ala Thr Gly Ala Cys Cys Ala Ala Gly Ala Ala Cys Cys
 385 390 395 400
 Ala Gly Gly Thr Cys Ala Gly Cys Cys Thr Gly Ala Cys Cys Thr Gly
 405 410 415
 Cys Cys Thr Gly Gly Thr Cys Ala Ala Ala Gly Gly Cys Thr Thr Cys
 420 425 430
 Thr Ala Thr Cys Cys Cys Ala Gly Cys Gly Ala Cys Ala Thr Cys Gly
 435 440 445
 Cys Cys Gly Thr Gly Gly Ala Gly Thr Gly Gly Gly Ala Gly Ala Gly
 450 455 460
 Cys Ala Ala Thr Gly Gly Gly Cys Ala Gly Cys Cys Gly Gly Ala Gly
 465 470 475 480
 Ala Ala Cys Ala Ala Cys Thr Ala Cys Ala Ala Gly Ala Cys Cys Ala
 485 490 495
 Cys Gly Cys Cys Thr Cys Cys Cys Ala Thr Gly Cys Thr Gly Gly Ala
 500 505 510
 Cys Thr Cys Cys Gly Ala Cys Gly Gly Cys Thr Cys Cys Thr Thr Cys
 515 520 525
 Thr Thr Cys Cys Thr Cys Thr Ala Cys Ala Gly Cys Ala Ala Gly Cys
 530 535 540
 Thr Cys Ala Cys Cys Gly Thr Gly Gly Ala Cys Ala Ala Gly Ala Gly
 545 550 555 560
 Cys Ala Gly Gly Thr Gly Gly Cys Ala Gly Cys Ala Gly Gly Gly Gly
 565 570 575

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Ala Ala Cys Gly Thr Cys Thr Thr Cys Thr Cys Ala Thr Gly Cys Thr
 580 585 590
 Cys Cys Gly Thr Gly Ala Thr Gly Cys Ala Thr Gly Ala Gly Gly Cys
 595 600 605
 Thr Cys Thr Gly Cys Ala Cys Ala Ala Cys Cys Ala Cys Thr Ala Cys
 610 615 620
 Ala Cys Gly Cys Ala Gly Ala Ala Gly Ala Gly Cys Cys Thr Cys Thr
 625 630 635 640
 Cys Cys Cys Thr Gly Thr Cys Thr Cys Cys Gly Gly Gly Thr Ala Ala
 645 650 655
 Ala

<210> 23
 <211> 219
 <212> PRT
 <213> homo sapiens

<400> 23
 Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro
 1 5 10 15
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 20 25 30
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn
 35 40 45
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 50 55 60
 Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val
 65 70 75 80
 Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 85 90 95
 Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys
 100 105 110
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
 115 120 125
 Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 130 135 140
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 145 150 155 160
 Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe
 165 170 175
 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 180 185 190
 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 195 200 205
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 210 215